

## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/211,297

Source: \_\_\_\_\_

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**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/09/211,297

DATE: 05/03/2005

TIME: 13:27:53

Input Set : N:\Crf3\RULE60\09211297.raw.txt  
 Output Set: N:\CRF4\05032005\I211297.raw

**SEQUENCE LISTING**

- 3 (1) GENERAL INFORMATION:  
 5       (i) APPLICANT: Boyle, William J.  
 7       (ii) TITLE OF INVENTION: Osteoprotegerin Binding Proteins  
 9       (iii) NUMBER OF SEQUENCES: 39  
 11      (iv) CORRESPONDENCE ADDRESS:  
 12       (A) ADDRESSEE: Amgen Inc.  
 13       (B) STREET: One Amgen Center Drive  
 14       (C) CITY: Thousand Oaks  
 15       (D) STATE: California  
 16       (E) COUNTRY: USA  
 17       (F) ZIP: 91320-1789  
 19      (v) COMPUTER READABLE FORM:  
 20       (A) MEDIUM TYPE: Floppy disk  
 21       (B) COMPUTER: IBM PC compatible  
 22       (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
 23       (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
 25      (vi) CURRENT APPLICATION DATA:  
 C--> 26       (A) APPLICATION NUMBER: US/09/211,297  
 C--> 27       (B) FILING DATE: 14-Dec-1998  
 W--> 33       (C) CLASSIFICATION: 514  
 C--> 30      (vii) PRIOR APPLICATION DATA:  
 31       (A) APPLICATION NUMBER: US/08/880,855  
 32       (B) FILING DATE: 23-06-1997  
 35      (viii) ATTORNEY/AGENT INFORMATION:  
 36       (A) NAME: Winter, Robert B.  
 37       (C) REFERENCE/DOCKET NUMBER: A-451A  
 40 (2) INFORMATION FOR SEQ ID NO: 1:  
 42      (i) SEQUENCE CHARACTERISTICS:  
 43       (A) LENGTH: 8 amino acids  
 44       (B) TYPE: amino acid  
 45       (C) STRANDEDNESS: single  
 46       (D) TOPOLOGY: linear  
 48      (ii) MOLECULE TYPE: protein  
 53      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 55      Asp Pro Asn Arg Gln Asp Ile Asp  
 56      1           5  
 58 (2) INFORMATION FOR SEQ ID NO: 2:  
 60      (i) SEQUENCE CHARACTERISTICS:  
 61       (A) LENGTH: 52 base pairs  
 62       (B) TYPE: nucleic acid  
 63       (C) STRANDEDNESS: single  
 64       (D) TOPOLOGY: linear

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66      (ii) MOLECULE TYPE: cDNA
71      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
73 GTTCTCCTCA TATGGATCCA AACCGTATTCTGAAGACAG CACTCACTGC TT      52
75 (2) INFORMATION FOR SEQ ID NO: 3:
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 37 base pairs
79          (B) TYPE: nucleic acid
80          (C) STRANDEDNESS: single
81          (D) TOPOLOGY: linear
83      (ii) MOLECULE TYPE: cDNA
88      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
90 TACGCACTCC GCGGTTAGTC TATGTCCTGA ACTTTGA      37
92 (2) INFORMATION FOR SEQ ID NO: 4:
94      (i) SEQUENCE CHARACTERISTICS:
95          (A) LENGTH: 8 amino acids
96          (B) TYPE: amino acid
97          (C) STRANDEDNESS: single
98          (D) TOPOLOGY: linear
100     (ii) MOLECULE TYPE: protein
105     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
107     Glu Asn Ala Gly Gln Asp Ile Asp
108         1           5
110 (2) INFORMATION FOR SEQ ID NO: 5:
112     (i) SEQUENCE CHARACTERISTICS:
113         (A) LENGTH: 51 base pairs
114         (B) TYPE: nucleic acid
115         (C) STRANDEDNESS: single
116         (D) TOPOLOGY: linear
118     (ii) MOLECULE TYPE: cDNA
123     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
125 ATTTGATTCT AGAAGGAGGA ATAACATATG CATGAAACG CAGGTCTGCA G      51
127 (2) INFORMATION FOR SEQ ID NO: 6:
129     (i) SEQUENCE CHARACTERISTICS:
130         (A) LENGTH: 42 base pairs
131         (B) TYPE: nucleic acid
132         (C) STRANDEDNESS: single
133         (D) TOPOLOGY: linear
135     (ii) MOLECULE TYPE: cDNA
140     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
142 TATCCGCGGA TCCTCGAGTT AGTCTATGTC CTGAACTTG AA      42
144 (2) INFORMATION FOR SEQ ID NO: 7:
146     (i) SEQUENCE CHARACTERISTICS:
147         (A) LENGTH: 8 amino acids
148         (B) TYPE: amino acid
149         (C) STRANDEDNESS: single
150         (D) TOPOLOGY: linear
152     (ii) MOLECULE TYPE: protein
157     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
159     Glu Asp Thr Leu Gln Asp Ile Asp

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160      1      5
162 (2) INFORMATION FOR SEQ ID NO: 8:
164   (i) SEQUENCE CHARACTERISTICS:
165     (A) LENGTH: 54 base pairs
166     (B) TYPE: nucleic acid
167     (C) STRANDEDNESS: single
168     (D) TOPOLOGY: linear
170   (ii) MOLECULE TYPE: cDNA
175   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
177 ATTTGATTCT AGAAGGAGGA ATAACATATG TCTGAAGACA CTCTGCCGG A CTCC      54
179 (2) INFORMATION FOR SEQ ID NO: 9:
181   (i) SEQUENCE CHARACTERISTICS:
182     (A) LENGTH: 9 amino acids
183     (B) TYPE: amino acid
184     (C) STRANDEDNESS: single
185     (D) TOPOLOGY: linear
187   (ii) MOLECULE TYPE: protein
192   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
194   Lys Gln Ala Phe Gln Gln Asp Ile Asp
195      1      5
197 (2) INFORMATION FOR SEQ ID NO: 10:
199   (i) SEQUENCE CHARACTERISTICS:
200     (A) LENGTH: 48 base pairs
201     (B) TYPE: nucleic acid
202     (C) STRANDEDNESS: single
203     (D) TOPOLOGY: linear
205   (ii) MOLECULE TYPE: cDNA
210   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
212 ATTTGATTCT AGAAGGAGGA ATAACATATG AAACAAGCTT TTCAGGGG      48
214 (2) INFORMATION FOR SEQ ID NO: 11:
216   (i) SEQUENCE CHARACTERISTICS:
217     (A) LENGTH: 10 amino acids
218     (B) TYPE: amino acid
219     (C) STRANDEDNESS: single
220     (D) TOPOLOGY: linear
222   (ii) MOLECULE TYPE: protein
227   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
229   Met Lys Glu Leu Gln His Gln Asp Ile Asp
230      1      5      10
232 (2) INFORMATION FOR SEQ ID NO: 12:
234   (i) SEQUENCE CHARACTERISTICS:
235     (A) LENGTH: 51 base pairs
236     (B) TYPE: nucleic acid
237     (C) STRANDEDNESS: single
238     (D) TOPOLOGY: linear
240   (ii) MOLECULE TYPE: cDNA
245   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
247 ATTTGATTCT AGAAGGAGGA ATAACATATG AAAGAACTGC AGCACATTGT G      51
249 (2) INFORMATION FOR SEQ ID NO: 13:

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Input Set : N:\Crf3\RULE60\09211297.raw.txt  
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251 (i) SEQUENCE CHARACTERISTICS:  
 252       (A) LENGTH: 10 amino acids  
 253       (B) TYPE: amino acid  
 254       (C) STRANDEDNESS: single  
 255       (D) TOPOLOGY: linear  
 257 (ii) MOLECULE TYPE: protein  
 262       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
 264       Met Gln Arg Phe Ser Gly Gln Asp Ile Asp  
 265       1                   5                   10  
 267 (2) INFORMATION FOR SEQ ID NO: 14:  
 269       (i) SEQUENCE CHARACTERISTICS:  
 270        (A) LENGTH: 51 base pairs  
 271        (B) TYPE: nucleic acid  
 272        (C) STRANDEDNESS: single  
 273        (D) TOPOLOGY: linear  
 275       (ii) MOLECULE TYPE: cDNA  
 280       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
 282 ATTTGATTCT AGAAGGGAGGA ATAACATATG CAGCGTTCT CTGGTGCTCC A       51  
 284 (2) INFORMATION FOR SEQ ID NO: 15:  
 286       (i) SEQUENCE CHARACTERISTICS:  
 287        (A) LENGTH: 9 amino acids  
 288        (B) TYPE: amino acid  
 289        (C) STRANDEDNESS: single  
 290        (D) TOPOLOGY: linear  
 292       (ii) MOLECULE TYPE: protein  
 297       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
 299       Met Glu Gly Ser Trp Gln Asp Ile Asp  
 300       1                   5  
 302 (2) INFORMATION FOR SEQ ID NO: 16:  
 304       (i) SEQUENCE CHARACTERISTICS:  
 305        (A) LENGTH: 40 base pairs  
 306        (B) TYPE: nucleic acid  
 307        (C) STRANDEDNESS: single  
 308        (D) TOPOLOGY: linear  
 310       (ii) MOLECULE TYPE: cDNA  
 315       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
 317 GTTCTCCTCA TATGGAAGGT TCTTGGTTGG ATGTGGCCA       40  
 319 (2) INFORMATION FOR SEQ ID NO: 17:  
 321       (i) SEQUENCE CHARACTERISTICS:  
 322        (A) LENGTH: 9 amino acids  
 323        (B) TYPE: amino acid  
 324        (C) STRANDEDNESS: single  
 325        (D) TOPOLOGY: linear  
 327       (ii) MOLECULE TYPE: protein  
 332       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
 334       Met Arg Gly Lys Pro Gln Asp Ile Asp  
 335       1                   5  
 337 (2) INFORMATION FOR SEQ ID NO: 18:  
 339       (i) SEQUENCE CHARACTERISTICS:

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Input Set : N:\CrF3\RULE60\09211297.raw.txt  
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340 (A) LENGTH: 44 base pairs  
 341 (B) TYPE: nucleic acid  
 342 (C) STRANDEDNESS: single  
 343 (D) TOPOLOGY: linear  
 345 (ii) MOLECULE TYPE: cDNA  
 350 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:  
 352 GTTCTCCTCA TATGCGTGGT AAACCTGAAG CTCAACCATT TGCA 44  
 354 (2) INFORMATION FOR SEQ ID NO: 19:  
 356 (i) SEQUENCE CHARACTERISTICS:  
 357 (A) LENGTH: 9 amino acids  
 358 (B) TYPE: amino acid  
 359 (C) STRANDEDNESS: single  
 360 (D) TOPOLOGY: linear  
 362 (ii) MOLECULE TYPE: protein  
 367 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
 369 Met Lys Pro Glu Ala Gln Asp Ile Asp  
 370 1 5  
 372 (2) INFORMATION FOR SEQ ID NO: 20:  
 374 (i) SEQUENCE CHARACTERISTICS:  
 375 (A) LENGTH: 53 base pairs  
 376 (B) TYPE: nucleic acid  
 377 (C) STRANDEDNESS: single  
 378 (D) TOPOLOGY: linear  
 380 (ii) MOLECULE TYPE: cDNA  
 385 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
 387 GTTCTCCTCA TATGAAACCT GAAGCTCAAC CATTGCAACA CCTCACCCATC AAT 53  
 389 (2) INFORMATION FOR SEQ ID NO: 21:  
 391 (i) SEQUENCE CHARACTERISTICS:  
 392 (A) LENGTH: 9 amino acids  
 393 (B) TYPE: amino acid  
 394 (C) STRANDEDNESS: single  
 395 (D) TOPOLOGY: linear  
 397 (ii) MOLECULE TYPE: protein  
 402 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:  
 404 Met His Leu Thr Ile Gln Asp Ile Asp  
 405 1 5  
 407 (2) INFORMATION FOR SEQ ID NO: 22:  
 409 (i) SEQUENCE CHARACTERISTICS:  
 410 (A) LENGTH: 65 base pairs  
 411 (B) TYPE: nucleic acid  
 412 (C) STRANDEDNESS: single  
 413 (D) TOPOLOGY: linear  
 415 (ii) MOLECULE TYPE: cDNA  
 420 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
 422 GTTCTCCTCA TATGCATTAA ACTATTAACG CTGCATCTAT CCCATCGGGT TCCCATAAAG 60  
 424 TCACT 65  
 426 (2) INFORMATION FOR SEQ ID NO: 23:  
 428 (i) SEQUENCE CHARACTERISTICS:  
 429 (A) LENGTH: 9 amino acids

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/211,297

DATE: 05/03/2005

TIME: 13:27:54

Input Set : N:\Crf3\RULE60\09211297.raw.txt

Output Set: N:\CRF4\05032005\I211297.raw

L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:30 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]  
L:33 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)